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**COMPUTER SET, DIGITAL: OL-583/TYQ (ULLS-S4 CONFIG) LIN: Z26406**  
**PREVENTIVE MAINTENANCE CHECKS AND SERVICES**

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**Maintenance Level**  
Operator

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## **INTRODUCTION**

### **General**

Preventive Maintenance Checks and Services (PMCS) are performed to keep the system in operating condition. The checks are used to find, correct, or report problems. ULLS-S4 operators are to do the PMCS jobs as shown in the PMCS table. PMCS are done every day the system is operated, using the PMCS table. Pay attention to WARNING and CAUTION statements. A WARNING means someone could be hurt. A CAUTION means equipment could be damaged.

Operators are not allowed to perform PMCS internally to any hardware.

Before you begin operating the system, do Before PMCS.

During operation, do During PMCS.

After operation, do After PMCS.

Once a week do Weekly PMCS. If the system has not been operated in a week also do Before PMCS at the same time.

Do Monthly PMCS once a month. If the system has not been operated in a month also do After PMCS at the same time.

If you are operating the system for the first time, do Weekly and Monthly PMCS the first time you do your Before PMCS.

If you find something wrong when performing PMCS, fix it if you can, using both troubleshooting and maintenance procedures.

The right-hand column of the PMCS table lists conditions that make the system not fully mission capable. Write up items not fixed on DA Form 2404/5988-E, Equipment Inspection and Maintenance Worksheet, for unit maintenance. For further information on how to use this form, see DA PAM 738-750.

If tools required to perform PMCS are not available, notify unit maintenance.

### **INSPECTION**

Look for signs of a problem or trouble. Senses help here. You can feel, smell, hear, or see many problems. Be alert when operating the system.

Inspect to see if items are in good condition. Are they correctly assembled, stored, secured, excessively worn, or corroded? Correct any faults found, document on a DA Form 2404/5988-E, and notify unit maintenance. There are some common items to check all over the system. They include the following:

1. Bolts, clamps, nuts, and screws: Continuously check for looseness. Look for chipped paint, bare metal, rust or corrosion around bolt and screw heads and nuts. Tighten them when you find them loose. If tools are not available, notify unit maintenance.

2. Welds: The cases of the system are welded. To check these welds, look for chipped paint, rust, corrosion, or gaps. When these conditions exist document on a DA Form 2404/5988-E, and notify unit maintenance.

3. Electrical wires, connectors, and harnesses: Tighten loose connectors. Look for cracked or broken insulation, bare wires, and broken connectors. If faults are found document on a DA Form 2404/5988-E, and notify unit maintenance.

## **CLEANING**

### **CAUTION**

Follow all cleaning instructions carefully. Failure to do so can result in damage to equipment.

### **WARNING**

Do not clean the cases or chassis when electrical power is applied. Disconnect all power cables.

Proper cleaning can aid in avoiding problems or trouble, so make it a habit to do the following:

1. Use a damp (water), lint-free cloth to clean the system unit and monitor. Avoid abrasives or solvents; they can permanently damage the finish.

2. Use a soft cloth and window cleaner to clean the monitor screen.

3. All floppy disk drives and tape drives should be cleaned periodically. Cleaning kits are available from a variety of sources. Carefully follow the instructions supplied with the cleaning kit you use.

4. Operating a system in a dusty or dirty environment significantly shortens its life and increases the probability of failure.

5. If you spill liquid inside the keyboard, unplug the keyboard immediately and turn it upside down to allow the liquid to drain out. Let the keyboard dry overnight before attempting to use it again. If it fails to work after drying document on a DA Form 2404/5988-E, and notify unit maintenance.

## **OPERATION**

### **CAUTION**

If your system is to be operated in cold weather and has been stored for an extended period, allow the system unit and monitor to warm up to room temperature. Exposing a cold computer to a warm room causes condensation that could damage the system. If condensation forms, wait for it to dry before plugging in the system.

The system requires good ventilation. Place it where air can circulate freely around it, and avoid locations in direct sunlight or near heaters or lamps. Never block the cooling fan opening. Avoid locations with high levels of dirt, dust, or smoke.

**CAUTION**

To prevent fire or shock hazard, do not expose the computer to rain, snow, or moisture.

Check the transit cases and computer/monitor chassis for damage. If the cases/chassis are damaged notify unit maintenance.

Make sure your computer is unplugged before connecting any peripherals, i.e., printers, monitors, and keyboards.

**CAUTION**

It is recommended that a surge/spike protector be used to help safeguard your equipment against any dangerous irregularities in the AC line.

**CAUTION**

Ensure that the equipment is connected to the correct power source. Failure to do so can result in damage to the hardware.

Procedures outlined are in accordance with the original equipment manufacturer (OEM) manuals for the hardware.

The functions and processes outlined are in accordance with the Unit Level Logistics System - S4 (ULLS-S4) End User Manual (EUM) AISM-25-L3S-AWE-ZZZ-EM, dated 27 February 1997.

Only those functions and processes that are applicable to a unit's mission are to be evaluated.

Table 1. Preventive Maintenance Checks and Services.

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
1	Before		Workstation Central Processing Unit (CPU) Chassis, Exterior	<p><b>NOTE</b> Crew will inspect for damaged or missing items while performing checks.</p> <p>Check for damaged or missing items.</p>	Any damaged or missing items that will prevent operation
2	Before		Cables	<p>Check for loose cables.</p> <p>Check for frayed or damaged cables.</p>	Any loose or damaged cables that will prevent operation
3	Before		Monitor	<p>Check for damage to exterior.</p> <p>Check screen for scratches.</p> <p>Check cables for damaged or bent pins.</p>	Any damage or scratches that will prevent operation or block vision
4	Before		Printer(s)	<p>Check for damaged to exterior.</p> <p>Check for damage to connectors.</p> <p>Check for damaged or worn ribbon.</p> <p>1. Make sure all pin rollers and gears operate smoothly.</p> <p>2. Make sure paper will feed in properly.</p> <p>3. Make sure all buttons operate properly.</p>	Any item that will prevent operation
5	Before		Keyboard	<p>Check for damage to exterior.</p> <p>Check for damage to any keys.</p> <p>Check for damage to cable.</p>	Any item that will prevent operation
6	Before		MODEM	<p>Check for damage to exterior.</p> <p>Check cables for damaged or bent pins.</p>	Any item that will prevent operation
7	Before/After Monthly		Floppy Disk Drive(s)	Perform floppy drive cleaning procedures.	Any item that will prevent operation
8	Before/After Monthly		Tape Drive(s)	Perform tape drive cleaning procedures.	Any item that will prevent operation
9	During		Power-up Procedures	<p><b>NOTE</b> Before turning on the system, ensure that the workstation is connected to a surge protection outlet strip.</p> <p>Perform EUM/OEM hardware power up procedures for all items to include peripheral devices (i.e., printers and modems, as appropriate).</p>	Unable to power-up the workstation or monitor
10	During		Session Initialization	Perform Session Initialization and Sign-on procedures.	Unable to initialize session or sign-on to application
11	During		Supply Function	Perform Supply procedures.	Unable to maintain the unit's property account, initiate requests, maintain document register, or the unit catalog
12	During		Hand Receipt		

ITEM NO.	INTERVAL	MAN-HOUR	ITEM TO BE CHECKED OR SERVICED	PROCEDURE	EQUIPMENT NOT READY/ AVAILABLE IF:
13	During		Function	Perform Hand Receipt procedures.	Unable to download Standardized Property Book System-Redesign (SPBS-R) data, or create/maintain sub-hand receipts
14	During		Component List Function	Perform Component List procedures.	Unable to assign direct responsibility to a Sub-Hand Receipt Holder for the components of an end item
15	During		Budget Function	Perform Budget procedures.	Unable to establish/maintain budget files, and proper management of unit's resources
16	During		Army Materiel Status System Function	Perform Army Materiel Status System procedures.	Unable to provide the capability to produce, send, and receive material readiness reports
17	During		Logistics Planning Function	Perform Logistics Planning procedures.	Unable to develop estimated requirements for logistics support plans
18	During		Utilities Function	Perform Utilities procedures.	Unable to manage and support the system, parameter files, security accesses, security tracking, and backup and restore system and database files
19	During/After		Sage Data Base Inquiry Function	Perform Sage Data Base Inquiry procedures.	Unable to select and combine data elements for tailored information reports
			Power-down Procedures	Power-off Workstation. Power-off Printer. Power-off MODEM.	Unable to Power-off Workstation